



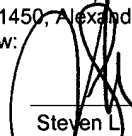
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October 14, 2003

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I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date below:	
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**MS DD**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/656,053 entitled "LIPOPROTEINS AS NUCLEIC ACID VECTORS" by Juan G. Guevara et al.*  
*Our Ref. ARAG:003USD1*

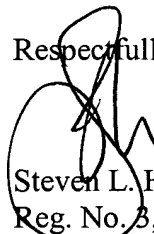
Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement and Form PTO-1449.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/ARAG:003USD1.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully Submitted,

  
Steven L. Highlander  
Reg. No. 3,642

SLH/cas  
Encl.: As noted

25335181.1



**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Juan G. Guevara et al.

Serial No.: 10/656,053

Filed: September 5, 2003

For: LIPOPROTEINS AS NUCLEIC ACID  
VECTORS

Group Art Unit: Unknown

Examiner: Unknown

Atty. Dkt. No.: ARAG:003USD1

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**INFORMATION DISCLOSURE STATEMENT**

**MS DD**

Commissioner for Patents

P.O. Box 1450

Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record.

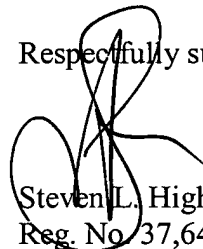
In accordance with 37 C.F.R. §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/ARAG:003USD1.

This application is a divisional application of Serial No. 09/079,030 filed May 14, 1998 and is relied upon for an earlier filing date under 35 U.S.C. § 120. In accordance with Rule 37 C.F.R. § 1.98(d) copies of the listed documents are not enclosed as they have been previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. 09/079,030.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,



Steven L. Highlander  
Reg. No. 37,642  
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Date: October 14, 2003

**Form PTO-1449** (modified)Atty. Docket No.  
ARAG:003USD1Serial No.  
10/656,053

List of Patents and Publications for Applicant's

Applicants

Juan G. Guevara, Jr., Ron C. Hoogveen  
and J. Paul Moore**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Filing Date:

September 5, 2003

Group:

Unknown

U.S. Patent Documents  
*See Page 1*Foreign Patent Documents  
*See Page 1*Other Art  
*See Page 1***U.S. Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
	A1	5,591,601	01-07-97	Wagner et al.	435	69.1	5-14-93
	A2	5,747,469	5-5-98	Roth et al.	514	44	4-25-94
	A3	6,143,290	11-7-00	Zhang et al.	424	93.2	4-7-94
	A4	6,156,567	12-5-00	Fischer	435	325	7-3-96
	A5	6,344,436	2-5-02	Smith et al.	514	2	1-8-96

**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	WO 87/02061	04-09-87	PCT			
	B2	WO 93/04701	03-18-93	PCT			
	B3	WO 93/18759	9-30-93	PCT			
	B4	WO 95/28494	10-26-95	PCT			
	B5	WO 95/31557	11-23-95	PCT			
	B6	WO 98/00556	01-08-98	PCT			

**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
	C1	AN:2000400575, Medline, Journal of Protein Chemistry, 18:845-857, 1999.
	C2	Anderson, "Human Gene Therapy," <i>Nature</i> , 392:25-30, 1998.
	C3	Baleja and Sykes, "Comparison of the structures of operator DNA free and in complex with $\lambda$ repressor," <i>Biochem. Cell Biol.</i> , 69(2-3):202-205, 1991.
	C4	Banner <i>et al.</i> , "Structure of the ColE1 Rop protein at 1.7 Å resolution," <i>J. Mol. Biol.</i> , 196(3):657-675, 1987.

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	C5	Benvensty and Reshef, "Direct introduction of genes into rats and expression of the genes," <i>Proc. Natl. Acad. Sci. USA</i> , 83:9551-9555, 1986.
	C6	Biou <i>et al.</i> , "The 2.9 Å crystal structure of <i>T. thermophilus</i> seryl-tRNA synthetase complexed with tRNA <sup>Ser</sup> ," <i>Science</i> , 263(5152):1404-1410, 1994.
	C7	Blackhart <i>et al.</i> , "An expression system for human apolipoprotein B100 in a rat hepatoma cell line," <i>J. Biol. Chem.</i> , 265(15):8358-8360, 1990.
	C8	Blanco-Vaca <i>et al.</i> , "Characterization of disulfide-linked heterodimers containing apolipoprotein D in human plasma lipoproteins," <i>J. Lipid Res.</i> , 33:1785-1798, 1992.
	C9	Blanco-Vaca <i>et al.</i> , "Identification and quantification of apolipoproteins in addition to apo[a] and apo B-100 in human lipoprotein[a]," <i>Chem. Physics, Lipids</i> , 67/68:35-42, 1994.
	C10	Branch, "A good antiense molecule is hard to find," <i>TIBS</i> , pp. 45-50, 1998.
	C11	Briggs <i>et al.</i> , "Nuclear protein that binds sterol regulatory element of low density lipoprotein receptor promoter," <i>J. Biol. Chem.</i> , 268:14490-14496, 1993.
	C12	Brown and Goldstein, "A receptor-mediated pathway for cholesterol homeostasis," <i>Science</i> , 232:34-47, 1986.
	C13	Bullough <i>et al.</i> , "Crystals of a fragment of influenza haemagglutinin in the low pH induced conformation," <i>J. Mol. Biol.</i> , 236(4):1262-1265, 1994a.
	C14	Bullough <i>et al.</i> , "Structure of influenza haemagglutinin at the pH of membrane fusion," <i>Nature</i> , 371(6492):37-43, 1994b.
	C15	Cardin <i>et al.</i> , "Physical-chemical interaction of heparin and human plasma low-density lipoproteins," <i>Biochem.</i> , 26:5513-5518, 1987.
	C16	Carpenter, "Receptor tyrosine kinase substrates: <i>src</i> homology domains and signal transduction," <i>FASEB J.</i> , 6:3283-3289, 1992.
	C17	Chiu <i>et al.</i> , "Optimizing energy potentials for success in protein tertiary structure prediction," <i>Folding and Design</i> , 3:223-228, 1998.
	C18	Cicchetti <i>et al.</i> , "Identification of a protein that binds to the SH3 region of Abl and is similar to Bcr and GAP-rho," <i>Science</i> , 257:803-806, 1992.

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Information Disclosure Statement — PTO-1449 (Modified)



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Exam. Init.	Ref. Des.	Citation
	C19	Cohen and Parry, "α-helical coiled coils - a widespread motif in proteins," <i>TIBS</i> , 11:245-248, 1986.
	C20	Coleman <i>et al.</i> , "Determination of cysteine on low-density lipoproteins using the fluorescent probe, 5-iodoacetamidofluorescein," <i>Biochim. Biophys. Acta</i> , 1037:129-132, 1990.
	C21	Connelly <i>et al.</i> , "Identification of disulfide-linked apolipoprotein species in human lipoproteins," <i>J. Lipid Res.</i> , 34:1717-1727, 1993.
	C22	Cooper, "The SRC family of protein-tyrosine kinases," Chapter 3, <i>In: Peptides and Protein Phosphorylation</i> , B.E. Kemp, ed., CRC Press, Inc., Boca Raton, FL, pp. 85-113.
	C23	Curiel <i>et al.</i> , "High efficiency gene transfer mediated by adenovirus coupled to DNA-polylysine complexes," <i>Human Gene Therapy</i> , 3:147-154, 1992.
	C24	Cusack <i>et al.</i> , "A second class of synthetase structure revealed by X-ray analysis of <i>Escherichia coli</i> seryl-tRNA synthetase at 2.5 Å," <i>Nature</i> , 347(6290):249-255, 1990.
	C25	Ellenberger <i>et al.</i> , "The GCN4 basic region leucine zipper binds DNA as a dimer of uninterrupted α helices: crystal structure of the protein-DNA complex," <i>Cell</i> , 71(7):1223-37, 1992.
	C26	Escobedo <i>et al.</i> , "A phosphatidylinositol-3 kinase binds to platelet-derived growth factor receptors through a specific receptor sequence containing phosphotyrosine," <i>Mol. Cell Biol.</i> , 11: 1125-1132, 1991.
	C27	Felgner <i>et al.</i> , "Lipofection: a highly efficient, lipid-mediated DNA-transfection procedure," <i>Proc. Natl. Acad. Sci. USA</i> , 84:7413-7417, 1987.
	C28	Geahlen and Harrison, "Protein-tyrosine kinases," Chapter 10, <i>In: Peptides and Protein Phosphorylation</i> , B.E. Kemp, ed., CRC Press, Inc., Boca Raton, FL, pp. 239-253.
	C29	Glover and Harrison, "Crystal structure of the heterodimeric bZIP transcription factor c-Fos-c-Jun bound to DNA," <i>Nature</i> , 373(6511):257-261, 1995.
	C30	Guevara Jr., <i>et al.</i> , "A structural assessment of the apo[a] protein of human lipoprotein[a]," <i>Proteins</i> , 12(2):188-199, 1992.
	C31	Guevara Jr., <i>et al.</i> , "Comparison of ligand-binding sites of modeled apo[a] kringle-like sequences in human lipoprotein[a]," <i>Arterioscler.</i> , 13(5):758-770, 1993.

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Exam. Init.	Ref. Des.	Citation
	C32	Guevara Jr., <i>et al.</i> , "Evidence that apoB-100 of low-density lipoproteins is a novel Src-related protein kinase," <i>J. Protein Chem.</i> , 14(7):627-631, 1995.
	C33	Guevara Jr., <i>et al.</i> , "Interaction of apolipoprotein[a] with apolipoprotein B-100 Cys3734 region in lipoprotein[a] is confirmed immunochemically," <i>J. Protein Chem.</i> , 15(1):17-25, 1996.
	C34	Guevara Jr., <i>et al.</i> , "Proposed mechanisms for binding of apo[a] kringle type 9 to apo B-100 in human lipoprotein[a]," <i>J. Biophys.</i> , 64(3):686-700, 1993.
	C35	Guevara Jr., <i>et al.</i> , "Src signal sequences in apoprotein B-100: Does LDL or Lp[a] play a role in signal transduction," <i>In: Multiple Risk Factors in Cardiovascular Disease</i> , Yamamoto, ed., Churchill Livingston Japan, ICIC, 1994.
	C36	Innerarity <i>et al.</i> , "Functional domains of apolipoprotein E and apolipoprotein B," <i>Acta Med. Scand. Suppl.</i> , 715:51-59, 1986.
	C37	International Search Report dated October 13, 1998 (PCT/US98/11927)(ARAG:003P).
	C38	Kaneda <i>et al.</i> , "Increased expression of DNA cointroduced with nuclear protein in adult rat liver," <i>Science</i> , 24:375-378, 1989.
	C39	Kim <i>et al.</i> , "Terplex system of lipoprotein, cationic polymer, and DNA for gene delivery," <i>Pharm. Res.</i> , 12(9):S80, 1995.
	C40	Kim <i>et al.</i> , "In vitro gene expression on smooth muscle cells using a terplex delivery system," <i>Jorn. Controlled Release</i> , 47:51-59, 1997.
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	C42	Knott <i>et al.</i> , "Complete protein sequence and identification of structural domains of human apolipoprotein B," <i>Nature</i> , 323:734-738, 1986.
	C43	Koch <i>et al.</i> , "SH2 and SH3 domains: elements that control interactions of cytoplasmic signaling proteins," <i>Science</i> , 252:668-674, 1991.
	C44	Kostner and Grillhofer, "Lipoprotein(a) mediates high affinity low density lipoprotein association to receptor negative fibroblasts," <i>J. Biol. Chem.</i> , 266:21287-21292, 1991.
	C45	Kraulis <i>et al.</i> , "Structure of the DNA-binding domain of zinc GAL4," <i>Nature</i> , 356(6368):448-450, 1992.

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Exam. Init.	Ref. Des.	Citation
	C46	Lee <i>et al.</i> , "Detailed analysis of structures and formulations of cationic lipids for efficient gene transfer to the lung," <i>Human Gene Therapy</i> , 7:1701-1717, 1996.
	C47	Lowenstein <i>et al.</i> , "The SH2 and SH3 domain-containing protein GRB2 links receptor tyrosine kinases to ras signaling," <i>Cell</i> , 70:431-442, 1992.
	C48	Lupas <i>et al.</i> , "Predicting coiled coils from protein sequences," <i>Science</i> , 252(5010):1162-1164, 1991.
	C49	MacArthur and Thornton, "Influence of proline residues on protein conformation," <i>J. Mol. Biol.</i> , 218:397-412, 1991.
	C50	Mahley, "Apolipoprotein E: cholesterol transport protein with expanding role in cell biology," <i>Science</i> , 240:622-630, 1988.
	C51	Marcel <i>et al.</i> , "Expression of Apolipoprotein B epitopes in lipoproteins. Relationship to conformation and function," <i>Arterioscl.</i> , 8:832, 1988.
	C52	Margolis, "Proteins with SH2 domains: transducers in the tyrosine kinase signaling pathway," <i>Cell, Growth and Differentiation</i> , 3:73-80, 1992.
	C53	Marmorstein <i>et al.</i> , "DNA recognition by GAL4: structure of a protein-DNA complex," <i>Nature</i> , 356(6368):408-414, 1992.
	C54	Mastrangelo <i>et al.</i> , "Gene therapy for human cancer: An essay of clinicians," <i>Seminars in Oncology</i> , 23:4-21, 1996.
	C55	McLean <i>et al.</i> , "cDNA sequence of human apolipoprotein(a) is homologous to plasminogen," <i>Nature</i> , 330:132-137, 1987.
	C56	Meng <i>et al.</i> , "Tumor suppression genes as targets for cancer gene therapy," <i>Gene Therapy of Cancer</i> , Chapter 1, pp. 3-20, 1999.
	C57	Milne <i>et al.</i> , "The use of monoclonal antibodies to localize the low density lipoprotein receptor-binding domain of apolipoprotein B," <i>J. Biol. Chem.</i> , 264(33):19754-19760, 1989.
	C58	Musacchio <i>et al.</i> , "Crystal structure of a Src-homology 3 (SH3) domain," <i>Nature</i> , 359:851-855, 1992.
	C59	Myant, "LDL: Physical and Chemical Characteristics, Chapter 5, In: Cholesterol Metabolism, LDL, and the LDL Receptor, San Diego, Academic Press, pp. 99-111, 1990.

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Information Disclosure Statement — PTO-1449 (Modified)



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Exam. Init.	Ref. Des.	Citation
	C60	Neumann <i>et al.</i> , "Gene transfer into mouse lyoma cells by electroporation in high electric fields," <i>EMBO J.</i> , 7:841-845, 1982.
	C61	Ngo <i>et al.</i> , "Computational complexity, protein structure prediction, and the Levinthal paradox," pp. 491-495, 1994.
	C62	O'Shea <i>et al.</i> , "X-ray structure of the GCN4 leucine zipper, a two-stranded, parallel coiled coil," <i>Science</i> , 254(5031):539-544, 1991.
	C63	Pawson, "SH2 and SH3 domain," <i>Current Opinion in Structural Biology</i> , 2:432-437, 1992.
	C64	Pleiman <i>et al.</i> , "Activation of phosphatidylinositol-3' kinase by Src-family kinase SH3 binding to the p85 subunit," <i>Science</i> , 263:1609-1612, 1994.
	C65	Plenat <i>et al.</i> , "Animal models of antisense oligonucleotides: lessons for use in humans," <i>Molecular Medicine Today</i> , pp. 250-257, 1996.
	C66	Ren <i>et al.</i> , "Identification of a ten-amino acid proline-rich SH3 binding site," <i>Science</i> , 259:1157-1161, 1993.
	C67	Rudd <i>et al.</i> , "src-related protein tyrosine kinases and their surface receptors," <i>Biochim. Biophys. Acta.</i> , 1155:239-266, 1993.
	C68	Schimotokono and Temin, "Formation of infectious progeny virus after insertion of herpes simplex thymidine kinase gene into DNA of an avian retrovirus," <i>Cell</i> , 26:67-77, 1981.
	C69	Schlessinger, "SH2/SH3 signaling proteins," <i>Current Opinions in Genetics and Development</i> , 4:25-30, 1994.
	C70	Schumaker and Puppione, "Sequential flotation ultracentrifugation," <i>Methods in Enzymology</i> , 128:155-170, 1986.
	C71	Sipehia and Martucci, "High-efficiency transformation of human endothelial cells by Apo E-mediated transfection with plasmid DNA," <i>Biochem Biophys Res Commun.</i> , 214:206-211, 1995.
	C72	Smith <i>et al.</i> , "Identification of nucleotides responsible for enhancer activity of sterol regulatory element in low density lipoprotein receptor gene," <i>J. Biol. Chem.</i> , 265:2306-2310, 1990.
	C73	Sompayrac and Danna, "Efficient infection of monkey cells with DNA of simian virus 40," <i>Proc. Natl. Acad. Sci. USA</i> , 78:7575-7578, 1981.

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	C74	Songyang <i>et al.</i> , "SH2 domains recognize specific phosphopeptide sequences," <i>Cell</i> , 72:767-778, 1993.
	C75	Stribling <i>et al.</i> , "Aerosol gene delivery <i>in vivo</i> ," <i>Proc. Natl. Acad. Sci. USA</i> , 89:11277-11281, 1992.
	C76	Tai <i>et al.</i> , "Ovarian cancer BRCA1 gene therapy: Phase I and II trial differences in immune responses and vector stability," <i>Clinical Cancer Research</i> , 5:1708-1714, 1999.
	C77	Teng <i>et al.</i> , "Modulation of apolipoprotein B antigenic determinants in human low density lipoprotein subclasses," <i>J. Biol. Chem.</i> , 260:5067-5072, 1985.
	C78	Trieu and McConathy, "Lipoprotein(a) binding to other apolipoprotein B containing lipoproteins," <i>Biochem.</i> , 29(25):5919-5924, 1990.
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EXAMINER: initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement — PTO-1449 (Modified)

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List of Patents and Publications for Applicant's

**INFORMATION DISCLOSURE STATEMENT**

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Applicants

Juan G. Guevara, Jr., Ron C. Hoogveen  
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U.S. Patent Documents

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Foreign Patent Documents

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Other Art

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**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
	C88	Yang <i>et al.</i> , "Isolation and characterization of sulfhydryl and disulfide peptides of human apolipoprotein B-100," <i>Proc. Natl. Acad. Sci. USA</i> , 87:5523-5527, 1990.
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